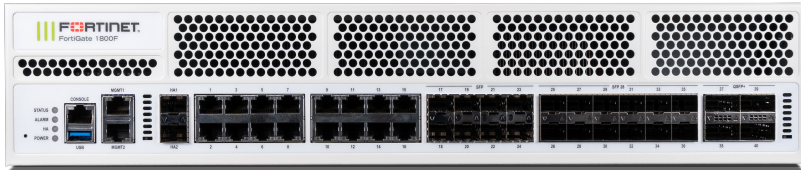


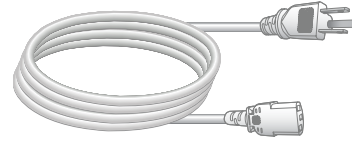
FortiGate 1800F/1801F -DC

Information Supplement

Box Includes



FortiGate 1800F/1801F -DC



2x AC Power Cables
(AC models only)



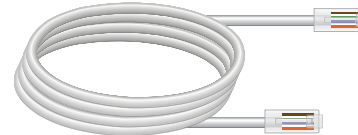
Console Cable



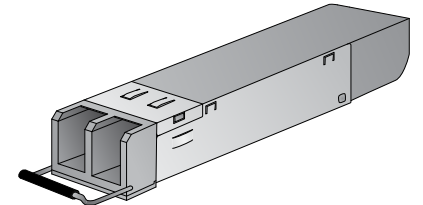
Information Supplement



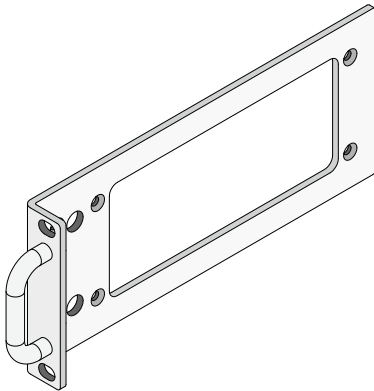
QuickStart Guide



Ethernet Cable



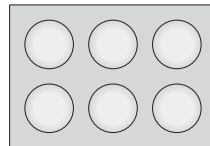
2x SFP+ Transceivers



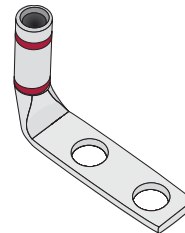
2x Rack-Mount Brackets



12x Bracket Screws



6x Rubber Feet

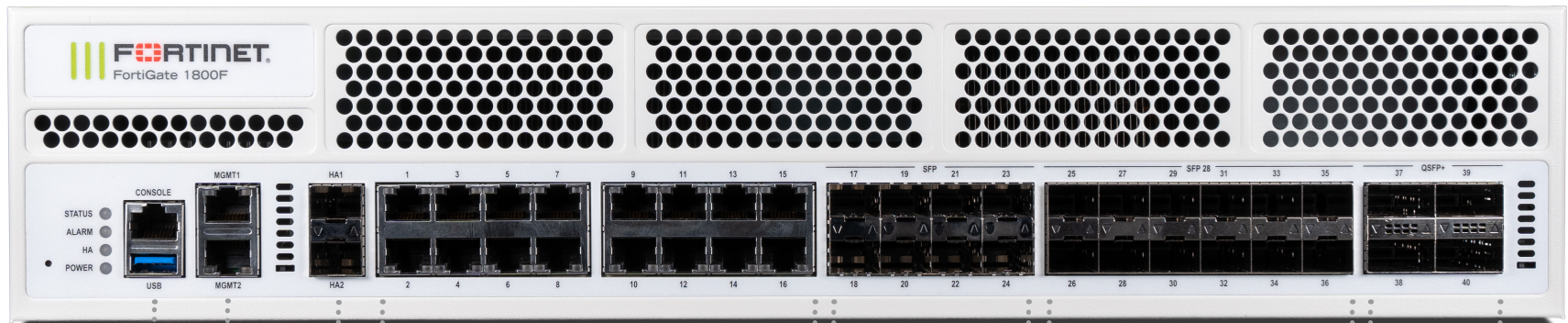



2 Grounding Lugs
(DC models only)



6 DC Terminal Rings
(DC models only)

FortiGate 1800F/1801F



USB (USB A) 
USB 3.0 server port

 **Ethernet Ports 1 to 16 (RJ-45)**
1Gbps Ethernet local network ports

Ports 17 to 24 (SFP)
Supports 1Gbps

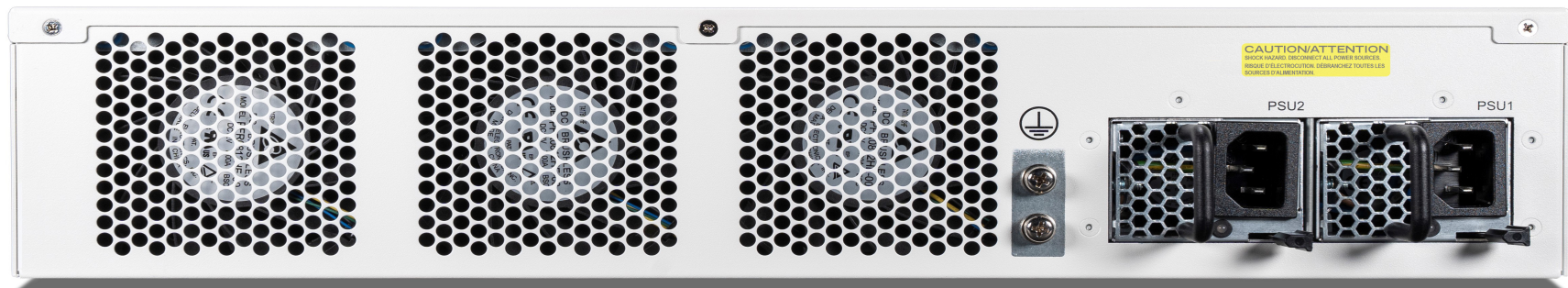
Ports 37 to 40 (QSFP+)
Supports 40Gbps

SFP Ports HA1 & HA2 (SFP+)
Optional 10Gbps connection to other FortiGate units
for High Availability (HA)

Ports 25 to 36 (SFP+/SFP 28)
Supports 10Gbps/25Gbps

MGMT Ports (RJ-45)
Client ports for management
Default IP address of MGMT1 is 192.168.1.99
Default IP address of MGMT2 is 192.168.2.99

Power
100-240V AC, 50/60Hz, 7-3A
Hot Swappable, Redundant (1+1) Power Supplies



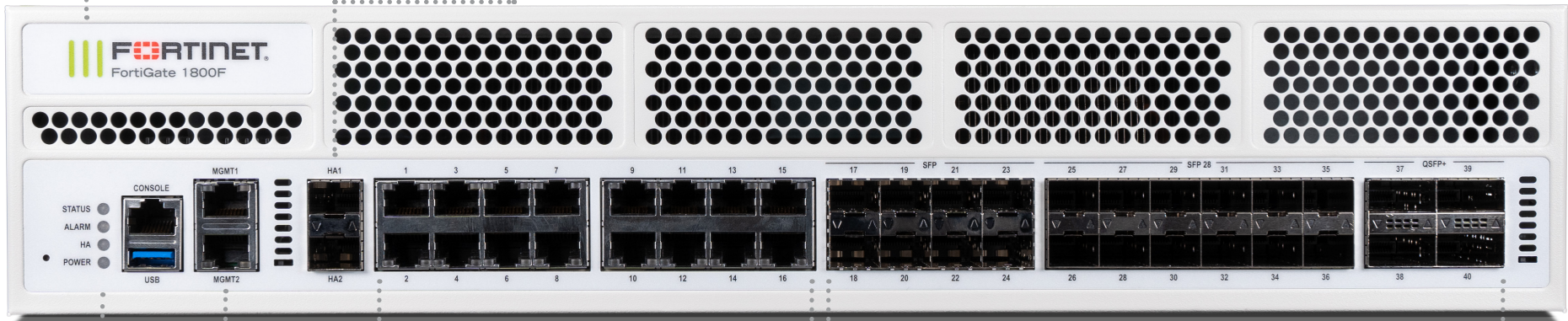
FortiGate 1800F/1801F

Fortinet Logo

- Green: The unit is on
- Off: The unit is off

HA1 & HA2 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established



MGMT1 & MGMT2 Speed

- Green: Connected at 1000Mbps
- Off: No link established

MGMT1 & MGMT2 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving
- Off: No link established

Status

- Green: Normal
- Flashing Green: Booting up
- Red: Major alarm

Alarm

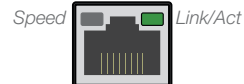
- Red: Major alarm
- Amber: Minor alarm
- Off: No alarms

HA

- Green: Operating in an HA cluster
- Red: HA failure
- Off: HA disable

Power

- Green: The unit is on
- Off: The unit is off



Ports 1 to 16 Speed

- Green: Connected at 1000Mbps
- Amber: Connected at 100Mbps
- Off: No link established

Ports 1 to 16 Link/Activity

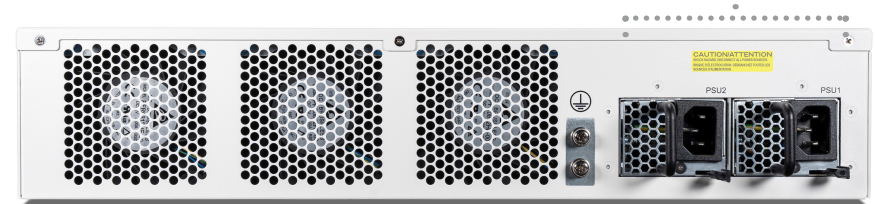
- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

Ports 17 to 40 Link/Activity

- Green: Connected
- Flashing Green: Transmitting & receiving data
- Off: No link established

Power Supply

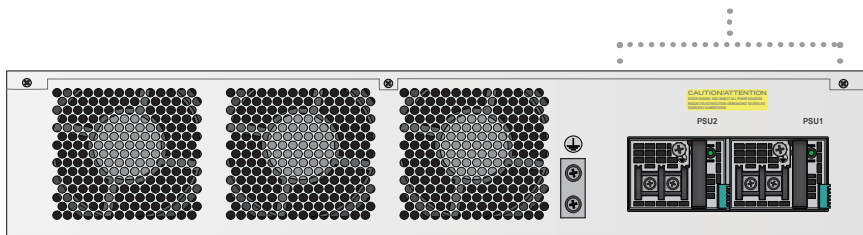
- Green: Power supply providing power
- Flashing Green: Power supply not providing power
- Off: Error or no power
- Red: AC cord unplugged or AC power lost
- Flashing Red: Power supply warning events



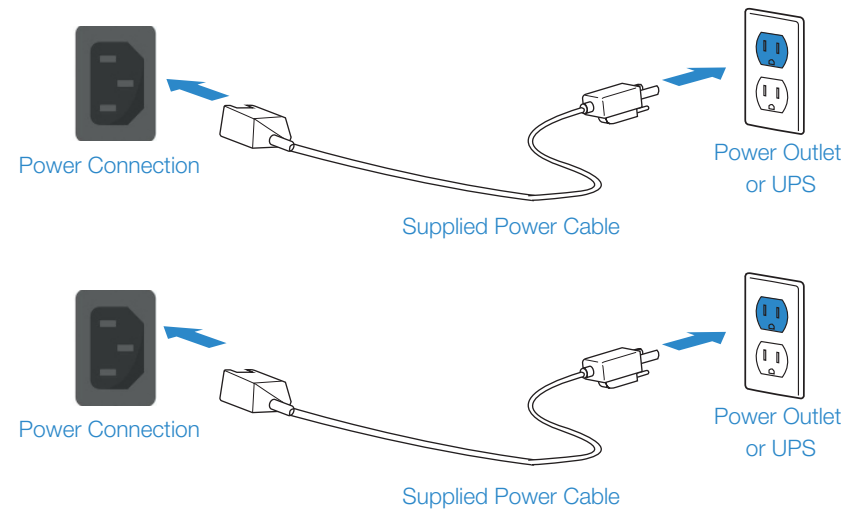
FortiGate 1800F/1801F -DC

DC Power Supply, -48V to -60V DC, 20A max

- Green: Input and output operating normally
- Flashing Green: Input power present, no output
- Off: Error or no power
- Amber: No input power, redundant supply is on
- Flashing Amber: Power supply warning events



Basic Connections



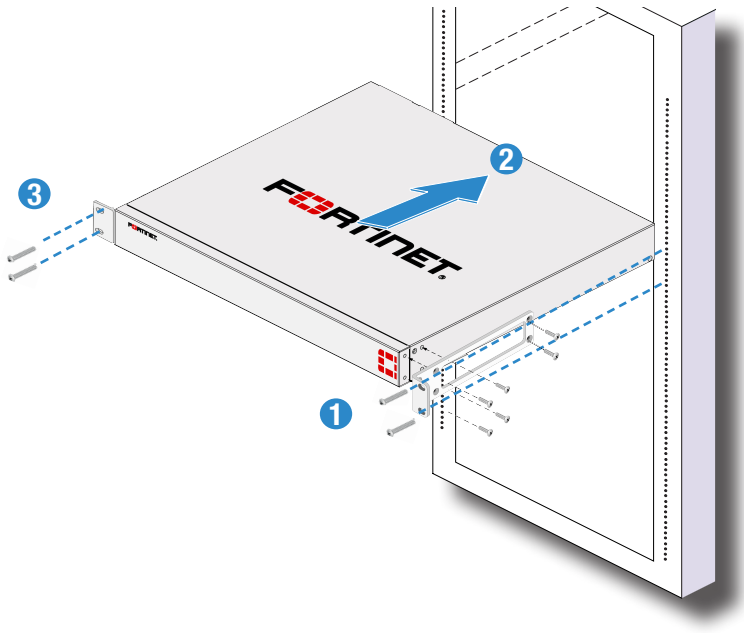
Plug in your device to a power outlet using the provided power cables.

Note: We recommend connecting your FortiGate to an uninterruptible power supply (UPS) in case of a power outage

Rack Installation

This device mounts in a standard 19 inch rack.

1. **Attach** the provided rack-mount **brackets and screws**
2. **Position** the device and **slide into the rack**
3. **Fasten** rack screws to **secure the device**



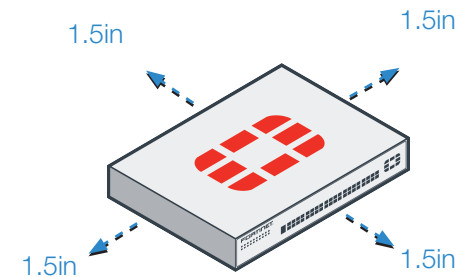
Caution: Ensure there is at least 1.5 inches of space above and below the device

Warning: For safety, it is recommended that two people install the device

Desktop Installation

You can also install this device as a desktop unit.

1. **Place** the unit on a flat, clean and **stable surface**
2. **Ensure** there is at least **1.5in of clearance** for adequate airflow

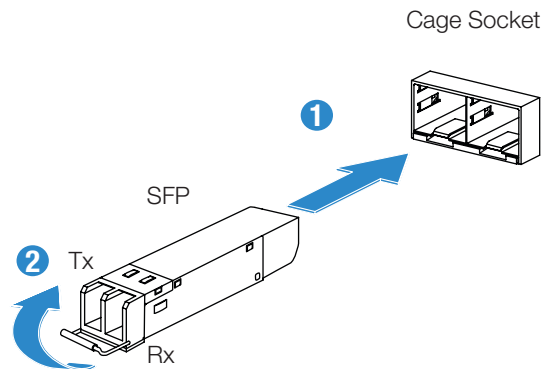


3. **Plug in** the provided **power cables** into the rear of the unit and then into a grounded electrical outlet or separate power source

SFP Installation

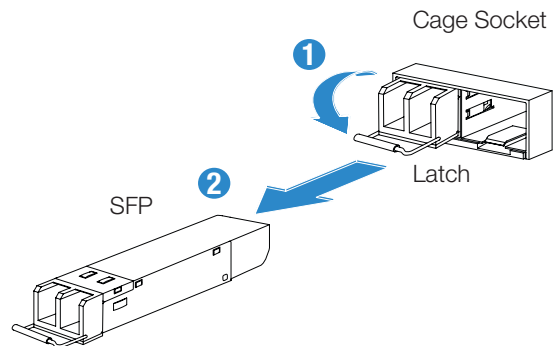
To install the SFP transceivers:

1. Slide the SFP into the cage socket until it clicks into place
2. Lift the latch to lock the SFP



To remove the SFP transceivers:

1. Lower the latch to unlock the SFP
2. Carefully pull the SFP out of the cage socket



Cautions and Warnings

Environmental specifications

Ambient operating temperature: 0°C to 40°C

Rack Mount Instructions - The following or similar rack-mount instructions are included with the installation instructions:
Instructions de montage en rack - Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

Elevated Operating Ambient - If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.
Température ambiante élevée - S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T_{ma}) stipulée par le fabricant.

Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
Ventilation réduite - Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.
Chargement Mécanique - Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

Circuit Overloading - Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Surtenstion - Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

Fiabilité de la mise à la terre - Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)

Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).

Safety

Warning: Equipment intended for installation in Restricted Access Location.

Avvertimento: Le matériel est conçu pour être installé dans un endroit où l'accès est restreint.

Battery - Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

Batterie - Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

警告
本電池如果更換不正確會有爆炸的危險
請依製造商說明書處理用過之電池

CAUTION: Shock Hazard. Disconnect all power sources.
ATTENTION: Risque d'électrocution. Débranchez toutes les sources d'alimentation.
Caution: Slide/rail mounted equipment is not to be used as a shelf or a work space.
Attention: Un équipement monté sur bâti ne doit pas être utilisé sur une étagère ou dans un espace de travail.

Warning: A UL Listed external disconnect device, i.e. circuit breaker or other, with over current protection suitable for local code (rated 25A recommended) shall be installed with this equipment

Avvertimento: Un dispositif de déconnexion externe homologué UL, exemple d'un disjoncteur ou autre, avec des protections de surintensité appropriées (nominal 25A recommandé) à l'installation de ce matériel

Warning: A readily accessible disconnect device shall be incorporated in the building installation wiring.

Avvertimento: Un dispositif de déconnexion facilement accessible doit être incorporé dans l'installation électrique du bâtiment.

Regulatory Notices

Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received; including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

WARNING: Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministre des Communications du Canada.

European Conformity (CE) - EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



Voluntary Control Council for Interference (VCCI) – Japan

この装置は、クラスA機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

Product Safety Electrical Appliance & Material (PSE) – Japan

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

Bureau of Standards Metrology and Inspection (BSMI) – Taiwan

The presence conditions of the restricted substance (BSMI RoHS table) are available at the link below:

限用物質含有情況表 (RoHS Table) 請到以下 網址下載:
<https://www.fortinet.com/bsmi>

此為甲類資訊技術設備，於居住環境中使用時，可能會造成射頻擾動，在此種情況下，使用者會被要求採取某些適當的對策。

英屬蓋曼群島商防網科技股份有限公司台灣分公司

地址：台北市內湖區行愛路176號2樓

電話：(02) 27961666

China

此為A級產品，在生活環境中，該產品可能會造成無線電干擾。這種情況下，可能需要用戶對其採取切实可行的措施。

Agência Nacional de Telecomunicações (ANATEL) – Brazil

Este produto não é apropriado para uso em ambientes domésticos, pois poderá causar interferências eletromagnéticas que obrigam o usuário a tomar medidas necessárias para minimizar estas interferências."

Para maiores informações, consulte o site da ANATEL www.anatel.gov.br

For FG-1800F and FG-1801F AC models only

Korea Certification (KC) – Korea

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If you are a Fortinet contracted and authorized reseller or distributor of Products, you may transfer (not rent or lease unless specifically agreed to in writing by Fortinet) the Software to one end user on a permanent basis, provided that: (a) you ensure that your customer and the end user receives a copy of this Agreement, its terms and conditions, and, by selling the Product or Software, you hereby agree to enforce the terms in this Agreement against such end user; (ii) you at all times comply with all applicable United States export control laws and regulations, and (iii) you agree to refund any fees paid to you by an end user who purchased Product(s) from you but does not agree to the terms contained in this Agreement and therefore wishes to return the Product(s) as provided for in this Agreement. Further, if you are a non-authorized reseller of Products and Services, you are not authorized to sell Product(s), Software or Services, but, regardless, by selling Product(s), Software or Services, you hereby agree you are bound by the restrictions and obligations herein and are bound to: (i) ensure that your customer and the end user receive a copy of this Agreement and are bound in full by all restrictions and obligations herein (ii) enforce the restrictions and obligations in this Agreement against such customer and/or end user, (iii) comply with all applicable United States export control laws and regulations and all other applicable laws, and (iv) refund any fees paid to you by a customer and/or end user who purchased Product(s) from you but does not agree to the restrictions and obligations contained in this Agreement and therefore wishes to return the Product(s) as provided for in this Agreement. Notwithstanding anything to the contrary, distributors, resellers and other Fortinet partners (a) are not agents of Fortinet and (b) are not authorized to bind Fortinet in any way. Fortinet's license, warranty, and support is only available for Products that you purchased directly from an authorized Fortinet channel partner. Products not purchased from an authorized Fortinet channel partner are not eligible, will not be supported, and may be blocked from registration.

6. Limited Warranty.

Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distributor and paid for such Product. The warranty is only valid for Products which are properly registered on Fortinet's Support Website, <https://support.fortinet.com>, or such other website as provided by Fortinet, or for which the warranty otherwise starts according to Fortinet's policies, and any support is only valid for products properly purchased through authorized distributors and resellers. The warranty periods discussed below will start according to Fortinet's policies posted at <http://www.fortinet.com/aboutus/legal.html> or such other website as provided by Fortinet. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full. Fortinet provides no warranty for any beta, donation or evaluation Products. Fortinet warrants that the hardware to the functional specifications ("Hardware Warranty Period") as contemplated in the functional specifications for any period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): (a) a three hundred sixty-five (365) day limited warranty for the Hardware products; (b) for FortiAP, the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date Hardware; (c) for FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series, the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date Hardware. Fortinet's sole obligation shall be to repair or offer replacement Hardware for the defective Hardware at no charge to the original owner. 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